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**BOLIVIAN PARTICIPATION IN THE INVESTIGATION AND ANALYSIS
OF EARTH RESOURCES EXPERIMENT (EREP).**

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- 1.0 Summary of the purposes of the project
- 1.1 Cartography
 - 1.1.1 Evaluation of the information obtained with the aerial Earth Terrain Camera (S 190 B) from the cartographic point of view, with respect to existing maps of the test area.
 - 1.1.2 Evaluation of the information obtained with the Aerial Terrain Camera (S 190 B) with respect to ARTS-1 bulk imagery.
 - 1.1.3 Evaluation of the information obtained with the Aerial Terrain Camera (S 190 B) with respect to precision processed image N° 1010-14032 of the test area.
 - 1.1.4 Preparation of a photomap based on evaluations mentioned in previous paragraphs.
- 1.2 Geology
 - 1.2.1 Development of interpretation methodology with the information obtained from experiments S-190 A, S-190 B and S-192 with respect to:
 - 1.2.1.1 Preparation of regional geologic maps.
 - 1.2.1.2 Preparation of tectonic maps of the test area.
 - 1.2.1.3 Study and Evaluation related to mineralization of the test area.
 - 1.2.1.4 Preparation of geomorphologic maps of the test area.
 - 1.2.1.5 Study and evaluation applicable to mapping of alluvial mineral deposits.
 - 1.2.1.6 Evaluation of this information applied to petroleum exploration.

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- 1.2.1.7 Mapping of volcanics zones in the test area.
- 1.2.1.8 Preparation of lithologic maps.
- 1.2.1.9 Evaluation and mapping of zones with thermic anomalies.
- 1.3. Agronomy
 - 1.3.1 Preparation of soil classification maps.
 - 1.3.2 Preparation of land use maps.
 - 1.3.3 Preparation of vegetation association maps (applied to forestry).
- 1.4. Hidrology
 - 1.4.1 Preparation of maps of drainage basins and sub-basins.
 - 1.4.2 Evaluation of drainage patterns anomalies.
 - 1.4.3 Preparation of hydrographic maps of the test area.
 - 1.4.4 Glacier mapping
- 1.5. Evaluation of EREP Data
 - 1.5.1 Evaluation study of EREP Data (S 190 A, S 190 B and S 192) with respect to ground truth data obtained by conventional means.
 - 1.5.2 Evaluation study of EREP Data (S 190 A, S 190 B and S 192) with respect to information extracted from ERTS bulk images in black and white and color composites.
 - 1.5.3 Evaluation study of EREP Data (S 190 A, S 190 B and S 192) with aerial photography, photomosaics and photoindex of the test area.
 - 1.5.4 Evaluation study of EREP Data (S 190 A, S 190 B and S 192) with multispectral aerial photographs.

- 2.0 Summary of work completed
- 2.1 Collection of test area information necessary to carry out the studies listed in paragraphs 1.0 - 1.5
- 3.0 Problems in establishing the data programming
- 3.1 Lack of N.A.S.A. information with respect to providing ERBP photographs and imagery.
- 3.2 Lack of ERBP photographs and images no work was carried out with respect to this experiment because of the total lack of the indicated material, realizing that it was obtained during SKYLAB missions II - III.
- 4.0 Conclusions
 - The proposed objectives described in this report are tentative subject to change.

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